

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for wirelessly providing software updates to a target module located in a machine, comprising:

determining whether a software update condition exists for software stored in the target module, wherein the target module is among a plurality of modules on-board the machine and each module in the plurality of modules is connected to a primary data link or a secondary data link within the machine;

delivering a software update ~~[[data]]~~ from a remote off-board system to the machine when a software update condition exists; and

performing an update process ~~[[by]]~~ on the machine, including:

determining, ~~[[at]]~~ on the machine, ~~a location of~~ whether the target module is connected to the primary data link or, alternatively, to the secondary data link,

if it is determined that the target module is connected to the secondary data link, determining whether an update delay condition exists ~~based on the location of the target module with respect to a primary data link and a secondary data link,~~

delivering the software update to the target module if no update delay condition exists, and

delaying the delivery of the software update ~~[[data]]~~ to the target module if an update delay condition does exist.

2-5. (Cancelled)

6. (Currently Amended) The method of claim 1, wherein ~~[[an]]~~ the update delay condition includes at least one of:

(i) a condition where the target module is incapable of receiving the software update ~~at that time~~ when the existence of the update delay condition is determined;

(ii) a condition where the machine includes an interface control system that manages distribution of the software update within the machine and the interface control system is incapable of delivering the software update ~~at that time~~ when the existence of the update delay condition is determined; and

(iii) a condition where the target module is ~~located on~~ connected to the secondary data link ~~[[that]]~~ and the secondary data link has transmission characteristics different ~~[[than]]~~ from those of the primary data link ~~connected to the interface control system~~.

7. (Currently Amended) The method of claim 1, wherein delivering the software update to the target module if no update delay condition exists includes:

receiving the software update at an interface control system within the ~~[[work]]~~ machine ~~[[that]]~~, wherein the interface control system manages the delivery of software updates for the ~~[[work]]~~ machine; and

forwarding, by the interface control system and without delay, the software update to the target module.

8. (Currently Amended) The method of claim 1, wherein delaying the delivery of the software update [[data]] includes:

receiving the software update at an interface control system within the machine [[that]], wherein the interface control system manages the delivery of software updates for the machine;

storing the software update [[data]] in a memory device associated with the interface control system; and

monitoring the update delay condition to determine when to deliver the software update [[data]] to the target module.

9. (Currently Amended) The method of claim 1, wherein determining whether an update delay condition exists includes:

when the target module is in a condition that cannot process the software update, receiving an indication from the target module reflecting [[a]] the condition ~~that it cannot process software updates at the time of receiving the indication.~~

10. (Currently Amended) The method of claim 1, wherein the machine includes an interface control system that receives the software update [[data]] delivered from the off-board system, the secondary data link has a different transmission speed than the primary data link, and the interface control system is connected to the primary data link and the secondary data link, and wherein determining whether an update delay condition exists includes:

determining whether the target module is located on the secondary data link ~~that~~
~~has a different transmission speed than the primary data link connected to the interface-~~
~~control system.~~

11. (Currently Amended) The method of claim 1, wherein determining whether a
software update condition ~~[[exists]]~~ exists for software stored in the target module
includes:

determining whether the target module is in need of a different version of
software based on an identification of software that is currently stored in the target
module.

12. (Cancelled)

13. (Currently Amended) ~~The method of claim 12, wherein notifying the user-~~
~~includes:~~ A method for wirelessly providing software updates to a target module located
in a machine, comprising:

determining that a software update condition exists for software stored in the
target module, wherein the target module is among a plurality of modules on-board the
machine and each module in the plurality of modules is connected to a primary data link
or a secondary data link within the machine;

presenting the user with an indication that an off-board system will update the
software stored in the target module;

receiving a rejection of the software update from the user;

automatically overriding the user's rejection by performing an update process on the machine, including:

determining, on the machine, whether the target module is connected to the primary data link or, alternatively, to the secondary data link,

if it is determined that the target module is connected to the secondary data link, determining whether an update delay condition exists,

either delaying delivery of the software update to the target module if an update delay condition exists, or delivering the software update to the target module over the secondary data link if no update delay condition exists.

14. (Original) The method of claim 1, wherein performing an update process includes:

providing a notification message from the target module indicating a status of the delivery of the software update to the target module.

15. (Currently Amended) The method of claim 14, wherein the status of the delivery of the software update reflects ~~one of~~ either a successful write of the software update to the target module~~[[, and]]~~ or an unsuccessful write of the software update to the target module.

16. (Currently Amended) The method of claim 15, wherein when the notification message indicates ~~[[an]]~~ the unsuccessful write of the software update, the notification

message includes data reflecting a reason associated with the unsuccessful write of the software update.

17. (Currently Amended) A system for providing software updates, comprising:
an off-board system including a memory for providing a software update data
~~associated with a target module~~ over a wireless communication medium; and
a machine, remotely located from the off-board system, for receiving the software
update ~~[[data]]~~, the ~~[[work]]~~ machine including:

an interface control system connected to a primary data link and a
secondary data link within the machine, and

[[the]] a plurality of modules, wherein a target module is among the
plurality of modules and each module in the plurality of modules is connected to the
primary data link or the secondary data link within the machine,

wherein the interface control system is configured to:

receive the software update ~~[[data]]~~,

determine ~~the location of,~~ on the machine, whether the target module is
connected to the primary data link or, alternatively, to the secondary data link,

~~determine whether an update delay condition exists based on the location~~
~~of the target module with respect to the primary data link and the secondary data link,~~
and

~~either delay a delivery of the software update data to the target module~~
~~when an update condition exists, or deliver, without delay, the software data to the~~
~~target module over the secondary data link~~

if it is determined that the target module is connected to the secondary data link, determine whether an update delay condition exists, and either delay delivery of the software update to the target module if an update delay condition exists, or deliver the software update to the target module over the secondary data link if no update delay condition exists.

18-21. (Cancelled)

22. (Currently Amended) The system of claim 17, wherein the update delay condition includes at least one of:

- (i) a condition where the target module is incapable of receiving the software update at that time when the existence of the update delay condition is determined;
- (ii) a condition where the machine includes an interface control system that manages distribution of the software update within the machine and the interface control system is incapable of delivering the software update at that time when the existence of the update delay condition is determined; and
- (iii) a condition where the target module is ~~located on a~~ connected to the secondary data link ~~[[that]]~~ and the secondary data link has transmission characteristics different ~~[[than]]~~ from those of ~~[[a]]~~ the primary data link ~~connected to the interface control system.~~

23. (Currently Amended) The system of claim 17, wherein the interface control system is configured such that ~~delays~~ delaying the delivery of the software update

[[data]] if the update delay condition exists [[by]] includes storing the software update [[data]] in a memory device associated with the interface control system, and ~~monitors~~ monitoring the update delay condition to determine when to deliver the software update [[data]] to the target module.

24. (Currently Amended) The system of claim 17, wherein the target module is configured such that, when the target module is in a condition that cannot process the software update, the target module [[send]] sends an indication to the interface control system reflecting [[a]] the condition that it cannot process software updates at the time of sending the indication to the interface control system.

25. (Currently Amended) The system of claim 24, wherein the interface control system uses the indication to determine whether [[an]] the update delay condition exists.

26. (Cancelled)

27. (Original) The system of claim 17, wherein the off-board system is configured to determine whether the target module is in need of a new version of software based on an identification of software that is currently stored in the target module.

28-29. (Cancelled)

30. (Currently Amended) ~~The system of claim 29, wherein the off-board system is configured to receive a rejection from the user regarding the software update, and automatically override the user's rejection by delivering the software update to the machine.~~

A system for providing software updates, comprising:

an off-board system including a memory for providing a software update over a wireless communication medium;

a machine, remotely located from the off-board system, for receiving the software update, the machine including:

an interface control system connected to a primary data link and a secondary data link within the machine, and

a plurality of modules, wherein a target module is among the plurality of modules and each module in the plurality of modules is connected to the primary data link or the secondary data link within the machine,

wherein the off-board system is configured to:

notify a user of the machine that the target module requires a software update,

receive a rejection from the user regarding the software update, and
automatically override the user's rejection by delivering the software update to the machine; and

wherein the interface control system is configured to:

receive the software update,

determine, on the machine, whether the target module is connected to the primary data link or, alternatively, to the secondary data link,

if it is determined that the target module is connected to the secondary data link, determine whether an update delay condition exists, and

either delay delivery of the software update to the target module if an update delay condition exists, or deliver the software update to the target module over the secondary data link if no update delay condition exists.

31. (Currently Amended) The system of claim 17, wherein the target module is ~~further~~ configured to provide a notification message indicating a status of the delivery of the software update to the target module.

32. (Currently Amended) The system of claim ~~[[17]]~~ 31, wherein the status of the delivery of the software update reflects ~~one of~~ either a successful write of the software update to the target module~~[[, and]]~~ or an unsuccessful write of the software update to the target module.

33. (Original) The ~~method~~ system of claim 32, wherein when the notification message indicates ~~[[an]]~~ the unsuccessful write of the software update, the notification message includes data reflecting a reason associated with the unsuccessful write of the software update.

34-37. (Cancelled)